

CRF Errors Corrected by the STIC System Branch

10728534-032102

PCT10

Serial Number: 10/088,544

Processing Date: 7/22/02
 Edited by: DC
 Verified by: DC (STIC staff)

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically:

ENTERED
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically:

- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:

- ☒ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:
1
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included:

- ☐ Deleted extra, invalid, headings used by an applicant, specifically:

- ☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file;
☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☒ Inserted mandatory headings, specifically: 42207 in Seq. 3
- ☐ Corrected an obvious error in the response, specifically:

- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically:

- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn.bug). Sequences corrected: _____
- ☐ Other:

***Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.**



PCT10

RAW SEQUENCE LISTING

DATE: 07/22/2002

PATENT APPLICATION: US/10/088,594A

TIME: 14:12:56

Input Set : A:\PTO.DC.txt

Output Set: N:\CRF3\07222002\J088594A.raw

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2 <110> APPLICANT: KYOWA HAKKO KOGYO CO., LTD
W--> 3 <120> TITLE OF INVENTION: Novel Transaldolase
W--> 4 <130> FILE REFERENCE: 00005.001198
W--> 5 <140> CURRENT APPLICATION NUMBER: US/10/088,594A
C--> 6 <141> CURRENT FILING DATE: 2002-06-11
7 <150> PRIOR APPLICATION NUMBER: JP 99/266548
8 <151> PRIOR FILING DATE: 1999-09-21
W--> 9 <160> NUMBER OF SEQ ID: 3
10 <170> SOFTWARE: PatentIn Ver. 2.0
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12 <211> LENGTH: 1080
13 <212> TYPE: DNA
14 <213> ORGANISM: Corynebacterium glutamicum ATCC31388
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18 1 5 10 15
19 gac gac ctc tcc cgc gag cgc att act tcc ggc aat ctc agc cag gtt 96
20 Asp Asp Leu Ser Arg Glu Arg Ile Thr Ser Gly Asn Leu Ser Gln Val
21 20 25 30
22 att gag gaa aag tct gta gtc ggt gtc acc acc aac cca gct att ttc 144
23 Ile Glu Glu Lys Ser Val Val Gly Val Thr Thr Asn Pro Ala Ile Phe
24 35 40 45
25 gca gca gca atg tcc aag ggc gat tcc tac gac gct cag atc gca gag 192
26 Ala Ala Ala Met Ser Lys Gly Asp Ser Tyr Asp Ala Gln Ile Ala Glu
27 50 55 60
28 ctc aag gcc gct ggc gca tct gtt gac cag gct gtt tac gcc atg agc 240
29 Leu Lys Ala Ala Gly Ala Ser Val Asp Gln Ala Val Tyr Ala Met Ser
30 65 70 75 80
31 atc gac gat gtt cgc aat gct tgt gat ctg ttc acc ggc atc ttc gag 288
32 Ile Asp Asp Val Arg Asn Ala Cys Asp Leu Phe Thr Gly Ile Phe Glu
33 85 90 95
34 tcc tcc aac ggc tac gac ggc cgc gtg tcc atc gag gtt gac cca cgt 336
35 Ser Ser Asn Gly Tyr Asp Gly Arg Val Ser Ile Glu Val Asp Pro Arg
36 100 105 110
37 atc tct gct gac cgc gac gca acc ctg gct cag gcc aag gag ctg tgg 384
38 Ile Ser Ala Asp Arg Asp Ala Thr Leu Ala Gln Ala Lys Glu Leu Trp
39 115 120 125
40 gca aag gtt gat cgt cca aac gtc atg atc aag atc cct gca acc cca 432
41 Ala Lys Val Asp Arg Pro Asn Val Met Ile Lys Ile Pro Ala Thr Pro
42 130 135 140
43 ggt tct ttg cca gca atc acc gac gct ttg gct gag ggc atc agc gtt 480
44 Gly Ser Leu Pro Ala Ile Thr Asp Ala Leu Ala Glu Gly Ile Ser Val

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49 gcg tac atc gag gga atc aag cag gca gct gca aac ggc cac gac gta 576
50 Ala Tyr Ile Glu Gly Ile Lys Gln Ala Ala Ala Asn Gly His Asp Val
51          180          185          190
52 tcc aag atc cac tct gtg gct tcc ttc ttc gtc tcc cgc gtc gac gtt 624
53 Ser Lys Ile His Ser Val Ala Ser Phe Phe Val Ser Arg Val Asp Val
54          195          200          205
55 gag atc gac aag cgc ctc gag gca atc gga tcc gat gag gct ttg gct 672
56 Glu Ile Asp Lys Arg Leu Glu Ala Ile Gly Ser Asp Glu Ala Leu Ala
57          210          215          220
58 ctg cgc ggc aag gca ggc gtt gcc aac gct cag cgc gct tac gct gtg 720
59 Leu Arg Gly Lys Ala Gly Val Ala Asn Ala Gln Arg Ala Tyr Ala Val
60 225          230          235          240
61 tac aag gag ctt ttc gac gcc gcc gag ctg cct gaa ggt gcc aac act 768
62 Tyr Lys Glu Leu Phe Asp Ala Ala Glu Leu Pro Glu Gly Ala Asn Thr
63          245          250          255
64 cag cgc cca ctg tgg gca tcc acc ggc gtg aag aac cct gcg tac gct 816
65 Gln Arg Pro Leu Trp Ala Ser Thr Gly Val Lys Asn Pro Ala Tyr Ala
66          260          265          270
67 gca act ctt tac gtt tcc gag ctg gct ggt cca aac acc gtc aac acc 864
68 Ala Thr Leu Tyr Val Ser Glu Leu Ala Gly Pro Asn Thr Val Asn Thr
69          275          280          285
70 atg cca gaa ggc acc atc gac gct gtt ctg gaa ctg ggc aac ctg cac 912
71 Met Pro Glu Gly Thr Ile Asp Ala Val Leu Glu Leu Gly Asn Leu His
72          290          295          300
73 ggt gac acc ctg tcc aac tcc gcg gca gaa gct gac gct gtg ttc tcc 960
74 Gly Asp Thr Leu Ser Asn Ser Ala Ala Glu Ala Asp Ala Val Phe Ser
75 305          310          315          320
76 cag ctt gag gct ctg ggc gtt gac ttg gca gat gtc ttc cag gtc ctg 1008
77 Gln Leu Glu Ala Leu Gly Val Asp Leu Ala Asp Val Phe Gln Val Leu
78          325          330          335
79 gag acc gag ggt gtg gac aag ttt gtt gct tct tgg agc gaa ctg ctt 1056
80 Glu Thr Glu Gly Val Asp Lys Phe Val Ala Ser Trp Ser Glu Leu Leu
81          340          345          350
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83 Glu Ser Met Glu Ala Arg Leu Lys
84          355          360
85 <210> SEQ ID NO: 2
86 <211> LENGTH: 1080
87 <212> TYPE: DNA
88 <213> ORGANISM: Corynebacterium glutamicum ATCC31388
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92 gtcaccacca acccagctat ttctgcagca gcaatgtcca agggcgattc ctacgacgct 180
93 cagatcgtag agctcaaggc cgctggcgca tctgttgacc aggtgtttaa cgccatgagc 240

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96 ctggctcagg ccaaggagct gtgggcaaag gttgatcgtc caaacgtcat gatcaagatc 420
97 cctgcaaccc caggttcttt gccagcaatc accgacgctt tggctgaggg catcagcggt 480
98 aacgtcacct tgatcttctc cgttgctcgc taccgcgagg tcatcgctgc gtacatcgag 540
99 ggaatcaagc aggcagctgc aaacggccac gacgtatcca agatccactc tgtggcttcc 600
100 ttcttcgtct cccgcgtcga cgttgagatc gacaagcgcc tcgaggcaat cggatccgat 660
101 gaggttttgg ctctgcgcgg caaggcaggc gttgccaacg ctacgcgcgc ttacgctgtg 720
102 tacaaggagc ttttcgacgc cgccgagctg cctgaagggtg ccaacactca gcgcccactg 780
103 tgggcatcca ccggcgtgaa gaacctgcg tacgctgcaa ctctttacgt ttccgagctg 840
104 gctggtccaa acaccgtcaa caccatgcca gaaggacca tcgacgctgt tctggaactg 900
105 ggcaacctgc acggtgacac cctgtccaac tccgcggcag aagctgacgc tgtgttctcc 960
106 cagcttgagg ctctgggcgt tgacttgcca gatgtcttcc aggtcctgga gaccgagggg 1020
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108 <210> SEQ ID NO: 3

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111 <213> ORGANISM: Corynebacterium glutamicum ATCC31388

113 <220> FEATURE:

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115 <222> LOCATION: (373)..(2472)

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123 ctacaaaagc ccacgtcaca gctcccagac ttaagattgg tcacaccttt gacacatttg 180
124 aaccacagtt ggttataaaa tgggttcaac atcactatgg ttagagggtg tgacgggtca 240
125 gattaagcaa agactacttt cggggtagat cacttttgcc aaatttgaat caattaacct 300
126 aagtcgtaga tctgatcate ggatctaacg aaaacgaacc aaaacttttg tcccggttta 360
127 acccaggaag ga atg acc acc ttg acg ctg tca cct gaa ctt cag gcg ctc 411
128 Met Thr Thr Leu Thr Leu Ser Pro Glu Leu Gln Ala Leu
129 1 5 10
130 act gta cgc aat tac ccc tct gat tgg tcc gat gtg gac acc aag gct 459
131 Thr Val Arg Asn Tyr Pro Ser Asp Trp Ser Asp Val Asp Thr Lys Ala
132 15 20 25
133 gta gac act gtt cgt gtc ctc gct gca gac gct gta gaa aac tgt ggc 507
134 Val Asp Thr Val Arg Val Leu Ala Ala Asp Ala Val Glu Asn Cys Gly
135 30 35 40 45
136 tcc ggc cac cca ggc acc gca atg agc ctg gct ccc ctt gca tac acc 555
137 Ser Gly His Pro Gly Thr Ala Met Ser Leu Ala Pro Leu Ala Tyr Thr
138 50 55 60
139 ttg tac cag cgg gtt atg aac gta gat cca cag gac acc aac tgg gca 603
140 Leu Tyr Gln Arg Val Met Asn Val Asp Pro Gln Asp Thr Asn Trp Ala
141 65 70 75
142 ggc cgt gac cgc ttc gtt ctt tct tgt ggc cac tcc tct ttg acc cag 651
143 Gly Arg Asp Arg Phe Val Leu Ser Cys Gly His Ser Ser Leu Thr Gln
144 80 85 90

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147	95						100					105					
148	aag	gct	ctg	cgc	acc	tgg	gat	tcc	ttg	acc	cca	gga	cac	cct	gag	tac	747
149	Lys	Ala	Leu	Arg	Thr	Trp	Asp	Ser	Leu	Thr	Pro	Gly	His	Pro	Glu	Tyr	
150	110						115					120				125	
151	cgc	cac	acc	aag	ggc	gtt	gag	atc	acc	act	ggc	cct	ctt	ggc	cag	ggt	795
152	Arg	His	Thr	Lys	Gly	Val	Glu	Ile	Thr	Thr	Gly	Pro	Leu	Gly	Gln	Gly	
153					130						135				140		
154	ctt	gca	tct	gca	gtt	ggt	atg	gcc	atg	gct	gct	cgt	cgt	gag	cgt	ggc	843
155	Leu	Ala	Ser	Ala	Val	Gly	Met	Ala	Met	Ala	Ala	Arg	Arg	Glu	Arg	Gly	
156				145					150					155			
157	cta	ttc	gac	cca	acc	gct	gct	gag	ggc	gaa	tcc	cca	ttc	gac	cac	cac	891
158	Leu	Phe	Asp	Pro	Thr	Ala	Ala	Glu	Gly	Glu	Ser	Pro	Phe	Asp	His	His	
159	160						165					170					
160	atc	tac	gtc	att	gct	tct	gat	ggt	gac	ctg	cag	gaa	ggt	gtc	acc	tct	939
161	Ile	Tyr	Val	Ile	Ala	Ser	Asp	Gly	Asp	Leu	Gln	Glu	Gly	Val	Thr	Ser	
162	175						180					185					
163	gag	gca	tcc	tcc	atc	gct	ggc	acc	cag	cag	ctg	ggc	aac	ctc	atc	gtg	987
164	Glu	Ala	Ser	Ser	Ile	Ala	Gly	Thr	Gln	Gln	Leu	Gly	Asn	Leu	Ile	Val	
165	190					195					200				205		
166	ttc	tgg	gat	gac	aac	cgc	atc	tcc	atc	gaa	gac	aac	act	gag	atc	gct	1035
167	Phe	Trp	Asp	Asp	Asn	Arg	Ile	Ser	Ile	Glu	Asp	Asn	Thr	Glu	Ile	Ala	
168				210					215					220			
169	ttc	aac	gag	gac	gtt	gtt	gct	cgt	tac	aag	gct	tac	ggc	tgg	cag	acc	1083
170	Phe	Asn	Glu	Asp	Val	Val	Ala	Arg	Tyr	Lys	Ala	Tyr	Gly	Trp	Gln	Thr	
171			225				230					235					
172	att	gag	gtt	gag	gct	ggc	gag	gac	gtt	gca	gca	atc	gaa	gct	gca	gtg	1131
173	Ile	Glu	Val	Glu	Ala	Gly	Glu	Asp	Val	Ala	Ala	Ile	Glu	Ala	Ala	Val	
174	240					245						250					
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178	acc	atc	atc	ggc	ttc	cca	gct	cca	acc	atg	atg	aac	acc	ggt	gct	gtg	1227
179	Thr	Ile	Ile	Gly	Phe	Pro	Ala	Pro	Thr	Met	Met	Asn	Thr	Gly	Ala	Val	
180	270					275					280				285		
181	cac	ggt	gct	gct	ctt	ggc	gca	gct	gag	gtt	gca	gca	acc	aag	act	gag	1275
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183				290					295					300			
184	ctt	gga	ttc	gat	cct	gag	gct	cac	ttc	gcg	atc	gac	gat	gag	gtt	atc	1323
185	Leu	Gly	Phe	Asp	Pro	Glu	Ala	His	Phe	Ala	Ile	Asp	Asp	Glu	Val	Ile	
186			305						310					315			
187	gct	cac	acc	cgc	tcc	ctc	gca	gag	cgc	gct	gca	cag	aag	aag	gct	gca	1371
188	Ala	His	Thr	Arg	Ser	Leu	Ala	Glu	Arg	Ala	Ala	Gln	Lys	Lys	Ala	Ala	
189			320						325					330			
190	tgg	cag	gtc	aag	ttc	gat	gag	tgg	gca	gct	gcc	aac	cct	gag	aac	aag	1419
191	Trp	Gln	Val	Lys	Phe	Asp	Glu	Trp	Ala	Ala	Ala	Asn	Pro	Glu	Asn	Lys	
192	335					340					345						
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RAW SEQUENCE LISTING

DATE: 07/22/2002

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TIME: 14:12:56

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Output Set: N:\CRF3\07222002\J088594A.raw

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197 Asp Glu Leu Pro Thr Trp Asp Ala Asp Glu Lys Gly Val Ala Thr Arg
198 370 375 380
199 aag gct tcc gag gct gca ctt cag gca ctg ggc aag acc ctt cct gag 1563
200 Lys Ala Ser Glu Ala Ala Leu Gln Ala Leu Gly Lys Thr Leu Pro Glu
201 385 390 395
202 ctg tgg ggc ggt tcc gct gac ctc gca ggt tcc aac aac acc gtg atc 1611
203 Leu Trp Gly Gly Ser Ala Asp Leu Ala Gly Ser Asn Asn Thr Val Ile
204 400 405 410
205 aag ggc tcc cct tcc ttc ggc cct gag tcc atc tcc acc gag acc tgg 1659
206 Lys Gly Ser Pro Ser Phe Gly Pro Glu Ser Ile Ser Thr Glu Thr Trp
207 415 420 425
208 tct gct gag cct tac ggc cgt aac ctg cac ttc ggt atc cgt gag cac 1707
209 Ser Ala Glu Pro Tyr Gly Arg Asn Leu His Phe Gly Ile Arg Glu His
210 430 435 440 445
211 gct atg gga tcc atc ctc aac ggc att tcc ctc cac ggt ggc acc cgc 1755
212 Ala Met Gly Ser Ile Leu Asn Gly Ile Ser Leu His Gly Gly Thr Arg
213 450 455 460
214 cca tac ggt gga acc ttc ctc atc ttc tcc gac tac atg cgt cct gca 1803
215 Pro Tyr Gly Gly Thr Phe Leu Ile Phe Ser Asp Tyr Met Arg Pro Ala
216 465 470 475
217 gtt cgt ctt gca gct ctc atg gag acc gac gct tac tac gtc tgg acc 1851
218 Val Arg Leu Ala Ala Leu Met Glu Thr Asp Ala Tyr Tyr Val Trp Thr
219 480 485 490
220 cac gac tcc atc ggt ctg ggc gaa gat ggc cca acc cac cag cct gtt 1899
221 His Asp Ser Ile Gly Leu Gly Glu Asp Gly Pro Thr His Gln Pro Val
222 495 500 505
223 gaa acc ttg gct gcg ctg cgc gcc atc cca ggt ctg tcc gtc ctg cgt 1947
224 Glu Thr Leu Ala Ala Leu Arg Ala Ile Pro Gly Leu Ser Val Leu Arg
225 510 515 520 525
226 cct gca gat gcg aat gag acc gcc cag gct tgg gct gca gca ctt gag 1995
227 Pro Ala Asp Ala Asn Glu Thr Ala Gln Ala Trp Ala Ala Ala Leu Glu
228 530 535 540
229 tac aag gaa ggc cct aag ggt ctt gca ctg acc cgc cag aac gtt cct 2043
230 Tyr Lys Glu Gly Pro Lys Gly Leu Ala Leu Thr Arg Gln Asn Val Pro
231 545 550 555
232 gtt ctg gaa ggc acc aag gag aag gct gaa ggc gtt cgc cgc ggt 2091
233 Val Leu Glu Gly Thr Lys Glu Lys Ala Ala Glu Gly Val Arg Arg Gly
234 560 565 570
235 ggc tac gtc ctg gtt gag ggt tcc aag gaa acc cca gat gtg atc ctc 2139
236 Gly Tyr Val Leu Val Glu Gly Ser Lys Glu Thr Pro Asp Val Ile Leu
237 575 580 585
238 atg ggc tcc ggc tcc gag gtt cag ctt gca gtt aac gct gcg aaa gct 2187
239 Met Gly Ser Gly Ser Glu Val Gln Leu Ala Val Asn Ala Ala Lys Ala
240 590 595 600 605
241 ctg gaa gct gag ggc gtt gca gct cgc gtt gtt tca gtt cct tgc atg 2235
242 Leu Glu Ala Glu Gly Val Ala Ala Arg Val Val Ser Val Pro Cys Met

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VERIFICATION SUMMARY

DATE: 07/22/2002

PATENT APPLICATION: US/10/088,594A

TIME: 14:12:57

Input Set : A:\PTO.DC.txt

Output Set: N:\CRF3\07222002\J088594A.raw

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L:4 M:283 W: Missing Blank Line separator, <130> field identifier
L:5 M:283 W: Missing Blank Line separator, <140> field identifier
L:6 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:9 M:283 W: Missing Blank Line separator, <160> field identifier
L:11 M:283 W: Missing Blank Line separator, <210> field identifier
L:15 M:283 W: Missing Blank Line separator, <400> field identifier
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L:263 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3